

IN THE CLAIMS:

Please cancel claim 15 without prejudice.

In accordance with the Revised Rules under 37 C.F.R. 1.121, please amend the claims as shown below and indicated as “currently amended.” Also shown below are claims that may be original, cancelled, withdrawn, previously presented, new, and not entered.

1. (currently amended) A method for decontaminating a clean-room (1; 101), in which the clean-room (1; 101) is supplied with gaseous H_2O_2 and H_2O_2 still present in the clean-room (1; 101) is chemically broken down without catalyst at a later timepoint by supplying at least one gaseous agent which reacts with the H_2O_2 .

2. (currently amended) The method as claimed in claim 1, ~~characterized in that~~ wherein H_2O_2 residues in a product situated in the clean-room (1; 101) are subsequently broken down on the product in a targeted manner.

3. (currently amended) The method as claimed in claim 1 ~~or 2, characterized in that~~, wherein the at least one gaseous agent is metered in such a manner that after the chemical breakdown of the H_2O_2 at most 1 ppm of H_2O_2 still remains in the clean-room.

4. (currently amended) The method as claimed in ~~one of claims 1 to 3, characterized in that~~ the claim 1, wherein the at least one gaseous agent comprises ammonia.

5. (currently amended) The method as claimed in claim 4, ~~characterized in that~~ wherein the ammonia is metered as a function of the H_2O_2 in such a manner that the excess of ammonia is at most 500 ppm.

6. (currently amended) The method as claimed in ~~one of claims 1 to 5, characterized in that~~ claim 1, wherein the at least one gaseous agent comprises hydrazine.

7. (currently amended) The method as claimed in ~~one of claims 1 to 6~~, characterized in that claim 1, wherein the at least one gaseous agent comprises ozone.

8. (currently amended) A system for decontaminating a clean-room (1; 101) having an H₂O₂ supply device (2; 102) for supplying the clean-room (1; 101) with H₂O₂, characterized in that it ~~comprises~~ comprising an H₂O₂ breakdown device (10; 111-115) for effecting a chemical breakdown of H₂O₂ without catalyst in the clean-room (1; 101), which further comprises means for introducing at least one gaseous agent into the clean-room (1; 101).

9. (currently amended) The system as claimed in claim 8, ~~characterized in that~~ wherein the means for introducing at least one gaseous agent ~~are~~ is constructed to introduce ammonia, hydrazine or ozone into the clean-room (1; 101).

10. (currently amended) The system as claimed in claim 8 ~~or 9~~, ~~characterized in that~~ wherein the means for introducing at least one gaseous agent into the clean-room (1; 101) ~~have~~ has a supply vessel (11) filled with gaseous agent, or a generator (111) for generating gaseous agent, a gas line (13; 113 from the supply vessel (11) or generator (111) to the clean-room (1; 101) and a valve (12; 112) for regulating the amount of the gaseous agent flowing through the gas line (13; 113).

11. (currently amended) The system as claimed in ~~one of claims 8 to 10~~, characterized in that it ~~has claim 8~~, further including a sensor for measuring the concentration of the gaseous agent (4; 104) in the clean-room (1; 101), the measured values of which serve to control the H₂O₂ breakdown device (10; 111-115).

12. (currently amended) The system as claimed in ~~one of claims 8 to 11~~, characterized in that it ~~has claim 8~~, further including a sensor for measuring the H₂O₂ concentration (5; 105) in the clean-room (1; 101), the measured values of which serve to control the H₂O₂ breakdown device (10; 111-115).

13. (currently amended) The system as claimed in ~~one of claims 8 to 12~~, characterized in that claim 8, wherein the H₂O₂ breakdown device has means for generating UV light in the clean-room ~~(1; 101)~~.

14. (currently amended) The system as claimed in ~~one of claims 8 to 13~~, characterized in that claim 8, wherein the H₂O₂ breakdown device ~~(111-115)~~ and the H₂O₂ supply device ~~(102)~~ are integrated into a periphery ~~(103)~~ of the clean-room ~~(101)~~.

15. (cancelled) An H₂O₂ breakdown device ~~(10; 111-115)~~ for a system for decontaminating a clean room ~~(1; 101)~~ according to ~~one of claims 8 to 14~~.